

### REMARKS

This Preliminary Amendment revises claims 1 and 4 in accordance with the Amendment under PCT Article 34 that was made in the Japanese language during the international phase of the subject international application. For the Examiner's convenience, claim 1 is amended in the last three paragraphs of this claim, and claim 4 is almost completely replaced with new language.

No new matter has been added.

Entry of this amendment and favorable consideration of this application are respectfully requested.

Respectfully submitted,

MANELLI DENISON & SELTER, PLLC

By Paul E. White, Jr.

Paul E. White, Jr.

Reg. No. 32,011

Tel. No.: (202) 261-1050

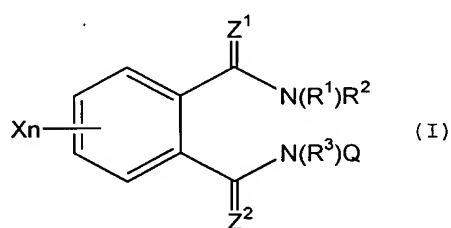
Fax No.: (202) 887-0336

2000 M Street, N.W.  
Seventh Floor  
Washington, D.C. 20036-3307  
(202) 261-1000

## APPENDIX SHOWING REVISIONS OF CLAIMS

### Proposed Amendments To Claims 1 and 4 Showing Deletions And Insertions.

Claim 1. (Amended) A phthalamide derivative represented by the following general formula (I):



wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup>, which may be same or different, represent hydrogen atom, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group or -A<sup>1</sup>-(G)<sub>r</sub> (in this formula, A<sup>1</sup> represents C<sub>1</sub>-C<sub>8</sub> alkylene group, C<sub>3</sub>-C<sub>6</sub> alkenylene group or C<sub>3</sub>-C<sub>6</sub> alkynylene group; G, which may be same or different, represents hydrogen atom, halogen atom, cyano group, nitro group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxycarbonyl group, di(C<sub>1</sub>-C<sub>6</sub>) alkoxyphosphoryl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkoxy groups may be same or different, di(C<sub>1</sub>-C<sub>6</sub>) alkoxythiophosphoryl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkoxy groups may be same or different, diphenylphosphino group, diphenylphosphono group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (as used

herein, the term "heterocyclic group" means pyridyl group, pyridine-N-oxide group, pyrimidinyl group, furyl group, tetrahydrofuryl group, thienyl group, tetrahydrothienyl group, tetrahydropyranyl group, oxazolyl group, isoxazolyl group, oxadiazolyl group, thiazolyl group, isothiazolyl group, thiadiazolyl group, imidazolyl group, triazolyl group or pyrazolyl group), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, or -Z<sup>3</sup>-R<sup>4</sup> (in this formula, Z<sup>3</sup> represents -O-, -S-, -SO-, -SO<sub>2</sub>-, -N(R<sup>5</sup>)- (in this formula, R<sup>5</sup> represents hydrogen atom, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl group, phenylcarbonyl group, substituted phenylcarbonyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl C<sub>1</sub>-C<sub>4</sub> alkoxy carbonyl group, substituted phenyl C<sub>1</sub>-C<sub>4</sub> alkoxy carbonyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group or halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group), -C(=O)- or -C(=NOR<sup>6</sup>)- (in this formula, R<sup>6</sup> represents hydrogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>3</sub>-C<sub>6</sub> alkenyl group, halo

C<sub>3</sub>-C<sub>6</sub> alkenyl group, C<sub>3</sub>-C<sub>6</sub> alkynyl group, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, phenyl C<sub>1</sub>-C<sub>4</sub> alkyl group, or substituted phenyl C<sub>1</sub>-C<sub>4</sub> alkyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group), and R<sup>4</sup> represents hydrogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>3</sub>-C<sub>6</sub> alkenyl group, halo C<sub>3</sub>-C<sub>6</sub> alkenyl group, C<sub>3</sub>-C<sub>6</sub> alkynyl group, halo C<sub>3</sub>-C<sub>6</sub> alkynyl group, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl group, formyl group, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl group, mono (C<sub>1</sub>-C<sub>6</sub>) alkylaminocarbonyl group, di(C<sub>1</sub>-C<sub>6</sub>) alkylaminocarbonyl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkyl groups may be same or different, mono(C<sub>1</sub>-C<sub>6</sub>) alkylaminothiocarbonyl group, di(C<sub>1</sub>-C<sub>6</sub>) alkylaminothiocarbonyl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkyl groups may be same or different, di(C<sub>1</sub>-C<sub>6</sub>) alkoxyphosphoryl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkoxy groups may be same or different, di(C<sub>1</sub>-C<sub>6</sub>) alkoxythiophosphoryl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkoxy groups may be same or different, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl C<sub>1</sub>-C<sub>4</sub> alkyl group, substituted phenyl (C<sub>1</sub>-C<sub>4</sub>) alkyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo

C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), or substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group); and r represents an integer of 1 to 4); further, R<sup>1</sup> and R<sup>2</sup> may be taken conjointly to form 4- to 7-membered rings which may be intercepted by 1 to 3, same or different oxygen atom, sulfur atom or nitrogen atom;

X, which may be same or different, represents halogen atom, cyano group, nitro group, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, or -A<sup>2</sup>-R<sup>7</sup> [in this formula, A<sup>2</sup> represents -O-, -S-, -SO-, -SO<sub>2</sub>-, -NR<sup>8</sup>- (in this formula R<sup>8</sup> represents

hydrogen atom, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl group, phenylcarbonyl group, substituted phenylcarbonyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl C<sub>1</sub>-C<sub>4</sub> alkoxy carbonyl group or substituted phenyl C<sub>1</sub>-C<sub>4</sub> alkoxy carbonyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group), -C(=O)-, -C(=NOR<sup>6</sup>)- (in this formula, R<sup>6</sup> is as defined above), C<sub>1</sub>-C<sub>6</sub> alkylene group, halo C<sub>1</sub>-C<sub>6</sub> alkylene group, C<sub>2</sub>-C<sub>6</sub> alkenylene group, halo C<sub>2</sub>-C<sub>6</sub> alkenylene group, C<sub>2</sub>-C<sub>6</sub> alkynylene group or halo C<sub>3</sub>-C<sub>6</sub> alkynylene group; and

(1) in cases where A<sup>2</sup> represents -O-, -S-, -SO-, -SO<sub>2</sub>- or -NR<sup>8</sup>- (in this formula, R<sup>8</sup> is as defined above), R<sup>7</sup> represents hydrogen atom, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkenyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group

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alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group));

(2) in cases where A<sup>2</sup> represents -C(=O)- or -C(=NOR<sup>6</sup>)- (in this formula, R<sup>6</sup> is as defined above), R<sup>7</sup> represents hydrogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>2</sub>-C<sub>6</sub> alkenyl group, halo C<sub>2</sub>-C<sub>6</sub> alkenyl group, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, mono(C<sub>1</sub>-C<sub>6</sub>) alkylamino group, di(C<sub>1</sub>-C<sub>6</sub>) alkylamino group in which the (C<sub>1</sub>-C<sub>6</sub>) alkyl groups may be same or different, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenylamino group, substituted phenylamino group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), or substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group; and

(3) in cases where A<sup>2</sup> represents C<sub>1</sub>-C<sub>6</sub> alkylene group, halo C<sub>1</sub>-C<sub>6</sub>



alkylene group, C<sub>2</sub>-C<sub>6</sub> alkenylene group, halo C<sub>2</sub>-C<sub>6</sub> alkenylene group, C<sub>2</sub>-C<sub>6</sub> alkynylene group or halo C<sub>3</sub>-C<sub>6</sub> alkynylene group, R<sup>7</sup> represents hydrogen atom, halogen atom, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl group, tri(C<sub>1</sub>-C<sub>6</sub>) alkylsilyl group in which the (C<sub>1</sub>-C<sub>6</sub>) alkyl groups may be same or different, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, or -A<sup>5</sup>-R<sup>11</sup> (in this formula, A<sup>5</sup> represents -O-, -S-, -SO- or -SO<sub>2</sub>-; and R<sup>11</sup> represents C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group,

halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, or -A<sup>6</sup>-R<sup>12</sup> (in this formula, A<sup>6</sup> represents C<sub>1</sub>-C<sub>6</sub> alkylene group, halo C<sub>1</sub>-C<sub>6</sub> alkylene group, C<sub>2</sub>-C<sub>6</sub> alkenylene group, halo C<sub>2</sub>-C<sub>6</sub> alkenylene group, C<sub>2</sub>-C<sub>6</sub> alkynylene group or halo C<sub>3</sub>-C<sub>6</sub> alkynylene group; and R<sup>12</sup> represents hydrogen atom, halogen atom, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenoxy group, substituted phenoxy group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenylthio group, substituted phenylthio group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), or substituted heterocyclic group (the term heterocyclic

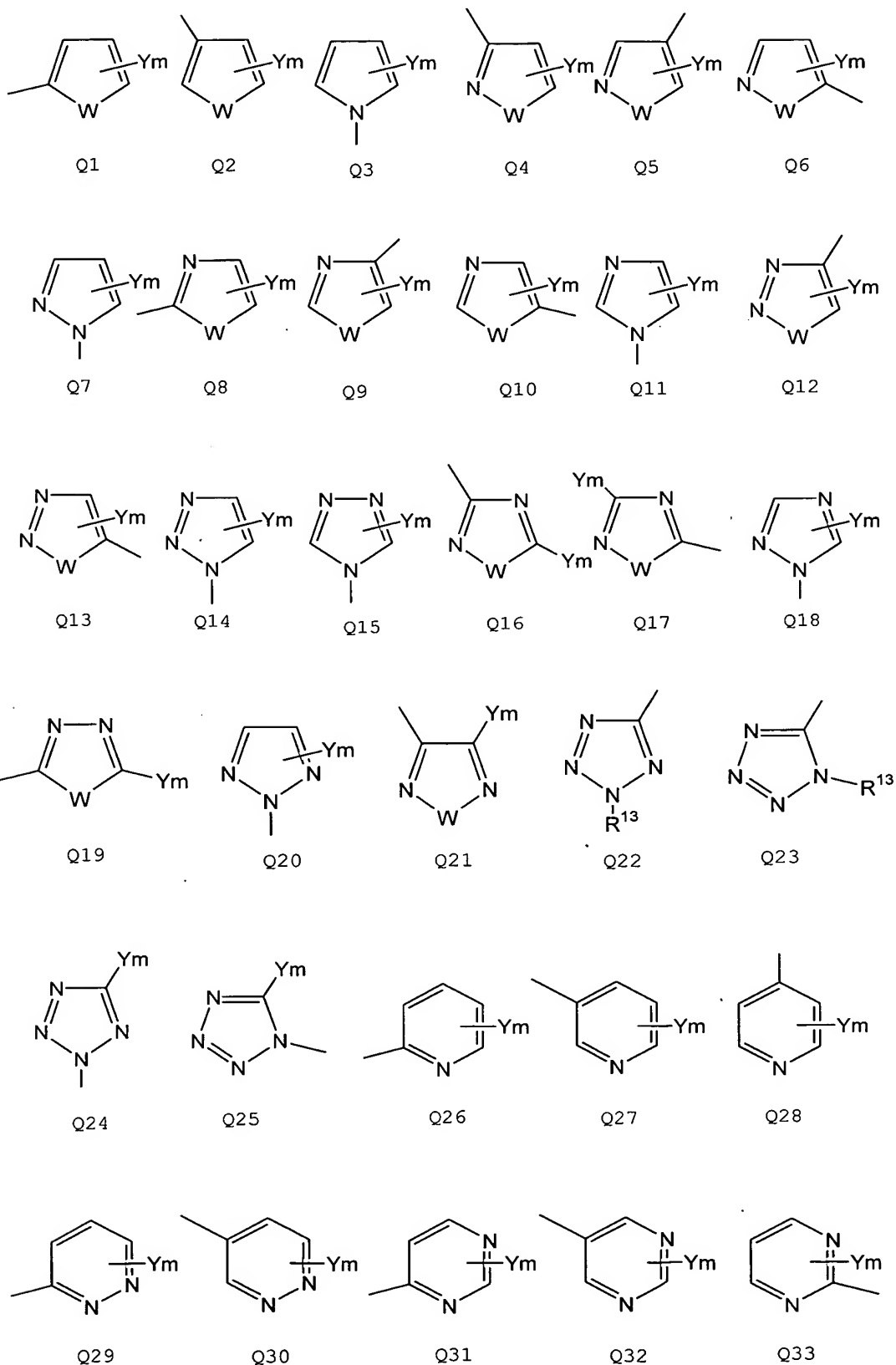
group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group));

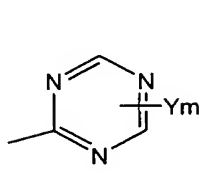
n represents an integer of 0 to 4; further, X may be taken conjointly with the adjacent carbon atom on the phenyl ring to form a fused ring (as used herein, the term fused ring means naphthalene, tetrahydronaphthalene, indene, indane, quinoline, quinazoline, chroman, isochroman, indole, indoline, benzodioxane, benzodioxole, benzofuran, dihydrobenzofuran, benzothiophene, dihydrobenzothiophene, benzoxazole, benzothiazole, benzimidazole or indazole), and said fused ring may have at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), and substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio

group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group;

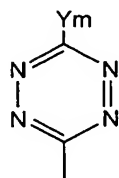
Q represents an N-, S- or O-containing, optionally substituted, heterocyclic group or fused heterocyclic group, selected from the group consisting of the following formulas Q1 to Q60;

Chemical structure Q1 to Q60

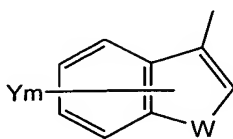




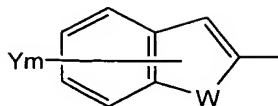
Q38



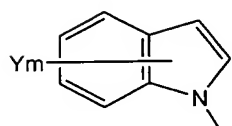
Q39



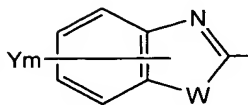
Q40



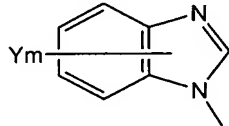
Q41



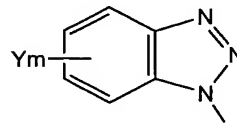
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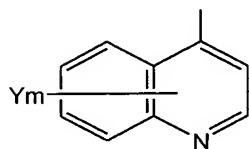
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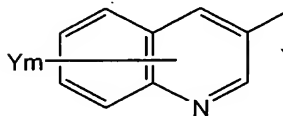
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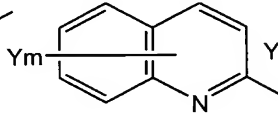
Q45



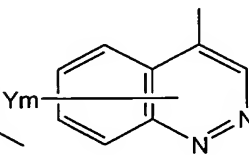
Q46



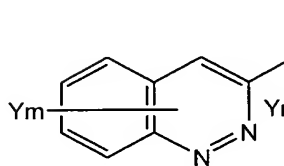
Q47



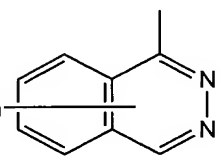
Q48



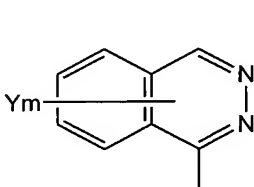
Q49



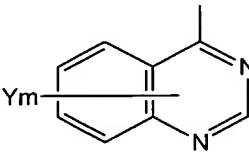
Q50



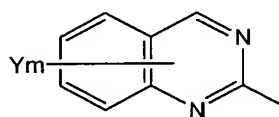
Q51



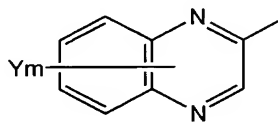
Q52



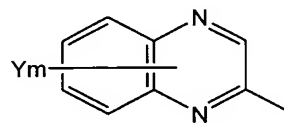
Q53



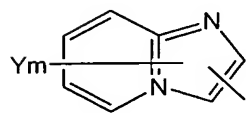
Q54



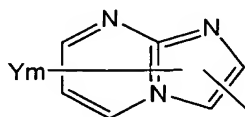
Q55



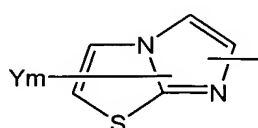
Q56



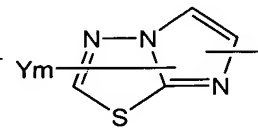
Q57



Q58



Q59



Q60

(in these formulas, Y, which may be same or different, represents halogen atom, cyano group, nitro group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, or -A<sup>2</sup>-R<sup>7</sup> (in this formula, A<sup>2</sup> and R<sup>7</sup> are as defined above); m represents an integer of 0 to 6; R<sup>13</sup> in the formula Q22 and Q23 represents hydrogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>3</sub>-C<sub>6</sub> alkenyl group, halo C<sub>3</sub>-C<sub>6</sub> alkenyl group, C<sub>3</sub>-C<sub>6</sub> alkynyl group, halo C<sub>3</sub>-C<sub>6</sub> alkynyl group, C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, halo C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy

group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl C<sub>1</sub>-C<sub>4</sub> alkyl group, substituted phenyl C<sub>1</sub>-C<sub>4</sub> alkyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenylcarbonyl group, or substituted phenylcarbonyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group);

alternatively, Y may be taken conjointly with adjacent carbon atom on the ring to form a fused ring (the fused ring is as defined above), and said fused ring may have at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined



above), and substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group and halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group;

W represents O, S or N-R<sup>13</sup> (in this formula, R<sup>13</sup> is as defined above); and Z<sup>1</sup> and Z<sup>2</sup> represent oxygen atom or sulfur atom;

provided that (1) when X, R<sup>1</sup> and R<sup>3</sup> simultaneously represent hydrogen atom, Z<sup>1</sup> and Z<sup>2</sup> simultaneously represent oxygen atom, Q represents Q27, and Y is a chlorine atom of 2-position, then R<sup>2</sup> is not 1,2,2-trimethylpropyl group.

(2) when X, R<sup>1</sup> and R<sup>3</sup> simultaneously represent hydrogen atom, Z<sup>1</sup> and Z<sup>2</sup> simultaneously represent oxygen atom, Q represents Q27 and m is 0, then R<sup>2</sup> is not 1,2,2-trimethylpropyl group, and

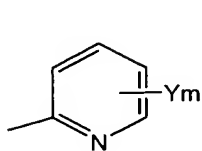
(3) when X, R<sup>1</sup> and R<sup>3</sup> simultaneously represent hydrogen atom, Z<sup>1</sup> and Z<sup>2</sup> simultaneously represent oxygen atom, Q represents Q16 and Y represents methylthio group, then R<sup>2</sup> is not hydrogen atom and methyl group.

Claim 4. (Amended) A heterocyclic amine derivative represented by the following general formula (IV'):

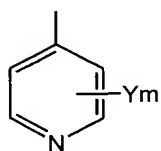


wherein:

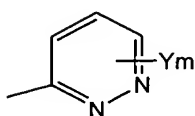
[ (1) in cases where Q' represents one of Q26, Q28-Q31 and Q33-Q39,



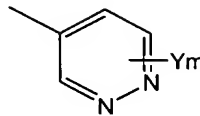
Q26



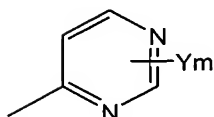
Q28



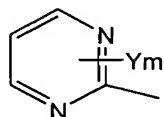
Q29



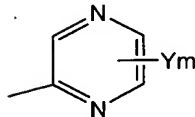
Q30



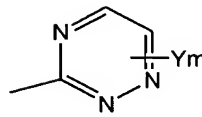
Q31



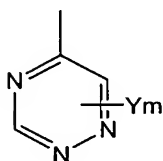
Q33



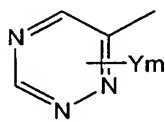
Q34



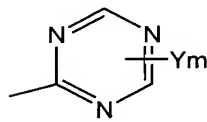
Q35



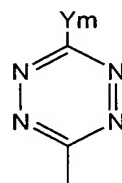
Q36



Q37



Q38

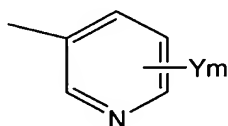


Q39

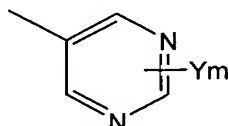
Y, which may be same or different, represents hydrogen atom, halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkyl-sulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group or halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C<sub>2</sub>-C<sub>6</sub> alkyl group;

and

(2) in a case where Q' represents Q27 and Q32:



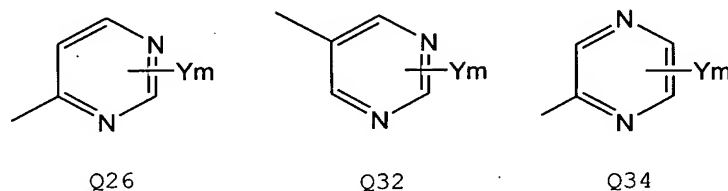
Q27



Q32

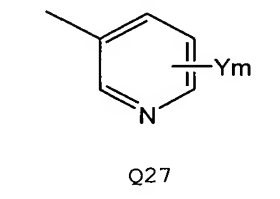
Y, which may be same or different, represents hydrogen atom, halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkyl-sulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group or halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C<sub>2</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy halo C<sub>1</sub>-C<sub>6</sub> alkoxy group or halo C<sub>1</sub>-C<sub>6</sub> alkylthio group ]

(1) in cases where Q' represents one of Q26, Q32 and Q34,



Y, which may be same or different, represents halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkyl-sulfonyl group or halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C<sub>2</sub>-C<sub>6</sub> alkyl group; and

(2) in a case where Q' represents Q27:



Y, which may be same or different, represents halogen atom, C<sub>1</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkyl group, C<sub>1</sub>-C<sub>6</sub> alkoxy group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group, C<sub>1</sub>-C<sub>6</sub> alkylthio

group, halo C<sub>1</sub>-C<sub>6</sub> alkylthio group, C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, halo C<sub>1</sub>-C<sub>6</sub> alkylsulfinyl group, C<sub>1</sub>-C<sub>6</sub> alkyl-sulfonyl group or halo C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C<sub>2</sub>-C<sub>6</sub> alkyl group, halo C<sub>1</sub>-C<sub>6</sub> alkoxy group or halo C<sub>1</sub>-C<sub>6</sub> alkylthio group,  
provided that Y is not 2,2,2-trifluoroethoxy group.

2001-12-19